IN THE CLAIMS:

1. (Currently Amended) A system for replay of a backup memory in a storage system having a file system for managing transfer of data to and from an attached disk array, the system comprising:

a log in the backup memory containing the storage system transaction entries accumulated after a consistency point at which time results of the storage system transaction entries are committed to the disk array;

an initiator process that establishes a swarm of messages with respect to the storage system transaction ~~request~~ entries and delivers the swarm to the file system; and

a disk information-retrieval process in the file system that is carried out on the swarm of messages in parallel.

2. (Original) The system as set forth in claim 1 wherein each of the messages of the swarm is identified by a transaction block including a pointer to one of the transaction request entries in the log, respectively, and a state that indicates whether each of the messages is one of (a) newly transferred to the file system, (b) subject to completion of a LOAD phase thereon by the disk information-retrieval process, (c) subject to completion of a MODIFY phase thereon by a MODIFY process of the file system or (d) incapable of being subject to the LOAD phase until a prerequisite event occurs.

3. (Original) The system as set forth in claim 2 wherein the prerequisite event is completion of the LOAD phase and a MODIFY phase with respect to another of the messages.

4. (Original) The system as set forth in claim 3 wherein the initiator process is adapted to retransfer each of the messages incapable of being subject to a load phase until the pre-

requisite event occurs to the file system for completion of the LOAD phase after the prerequisite event occurs, respectively.

5. (Original) The system as set forth in claim 4 wherein the initiator is adapted to establish a skip state with respect to skipped messages for which a portion of the disk array associated therewith is unavailable, the skip state thereby omitting the skipped messages from the swarm.

6. (Original) The system as set forth in claim 4 wherein the file system includes a panic state adapted to alert an operator if a first message received from the initiator in the swarm is a message incapable of being subject to a load phase until a prerequisite event occurs.

7. (Original) The system as set forth in claim 4 wherein the file system includes a panic state adapted to alert an operator if a message retransferred by the initiator process is a message incapable of being subject to a load phase until a prerequisite event occurs.

8. (Original) The system as set forth in claim 1 wherein the backup memory comprises a non-volatile random access memory (NVRAM).

9. (Original) The system as set forth in claim 1 wherein the storage system comprises a network storage appliance.

10. (Original) A method for replay of a backup memory in a storage system having a file system for managing transfer of data to and from an attached disk array, the method comprising:

accumulating, in a log in the backup memory, storage system transaction request entries after a consistency point at which time results of the transaction request entries are committed to the disk array;

establishing a swarm of messages with respect to the transaction request entries and delivering the swarm to the file system; and

performing a disk information-retrieval process of the file system on the swarm of messages in parallel.

11. (Original) The method as set forth in claim 10 further comprising establishing, for each of the messages of the swarm, a transaction block including a pointer to one of the transaction request entries in the log, respectively, and a state that indicates whether each of the messages is one of (a) newly transferred to the file system, (b) subject to completion of a LOAD phase thereon by the disk information-retrieval process, (c) subject to completion of a MODIFY phase thereon by a MODIFY process of the file system or (d) incapable of being subject to the LOAD phase until a prerequisite event occurs.

12. (Original) The method as set forth in claim 11 wherein the prerequisite event is completion of the LOAD phase and a MODIFY phase with respect to another of the messages.

13. (Original) The method as set forth in claim 12 further comprising retransferring each of the messages incapable of being subject to a load phase until the prerequisite event occurs to the file system for completion of the LOAD phase after the prerequisite event occurs, respectively.

14. (Original) The method as set forth in claim 10 wherein the storage system comprises a network storage appliance.

15. (Original) A computer-readable medium including program instructions executing on a computer for parallelized replay of a backup memory in a storage system having a file system for managing transfer of data to and from an attached disk array, the program instructions performing the steps of:

accumulating, in a log in the backup memory, storage system transaction request entries after a consistency point at which results of the transaction request entries are committed to the disk array;

establishing a swarm of messages with respect to the transaction request entries and delivering the swarm to the file system; and

performing a disk information-retrieval process of the file system on the swarm of messages in parallel.

16. (Original) The computer-readable medium as set forth in claim 15 further comprising establishing, for each of the messages of the swarm, a transaction block including a pointer to one of the transaction request entries in the log, respectively, in the log and a state that indicates whether each of the messages is one of (a) newly transferred to the file system, (b) subject to completion of the LOAD phase thereon by the disk information-retrieval process, (c) subject to completion of a MODIFY phase thereon by a MODIFY process of the file system or (d) incapable of being subject to the LOAD phase until a prerequisite event occurs.

17. (Original) The computer-readable medium as set forth in claim 16 wherein the pre-requisite event is completion of the LOAD phase and a MODIFY phase with respect to another of the messages.

18. (Original) The computer-readable medium as set forth in claim 17 further comprising retransferring each of the messages incapable of being subject to a load phase until the prerequisite event occurs to the file system for completion of the LOAD phase after the prerequisite event occurs, respectively.

19. (Original) The computer-readable medium as set forth in claim 15 wherein the storage system comprises a network storage appliance.